

| 1 | 1. A method of processing digital signals to be transmitted in analog | | | | |
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| 2 | form, said method comprising: | | | | |
| 3 | converting a digital signal to produce an analog signal image at a radio | | | | |
| 4 | frequency; and | | | | |
| 5 | using said analog signal image at said radio frequency for transmission. | | | | |
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| 1 | 2. The method of claim 1 comprising: | | | | |
| 2 | positioning said digital signal within a conversion bandwidth defined as one- | | | | |
| 3 | half the rate of said converting. | | | | |
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| 1 | The method of claim 1 comprising: | | | | |
| 2 | receiving a plurality of digital signals; | | | | |
| 3 - | positioning said digital signals in non-overlapping portions of a conversion | | | | |
| 4 | bandwidth defined as one-half the rate of said converting; | | | | |
| 5 | converting said digital signals to produce analog signal images at different | | | | |
| 6 | transmission frequencies; and | | | | |
| 7 | using said analog signal images for transmission. | | | | |
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| l | 4. The method of claim 3 wherein said step of using includes: | | | | |
| 2 | providing an analog signal image onto a path; | | | | |
| 3 | amplifying said analog signal image on said path; and | | | | |
| 4 | transmitting said amplified analog signal image using at least one antenna. | | | | |
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| 1 | 5. The method of claim 4 wherein said steps of providing, amplifying and | | | | |
| 2 | transmitting include: | | | | |
| 3 | providing a first analog signal image of a first frequency band on a first path | | | | |
| 4 | and a second analog signal image of a second frequency band on a second path; | | | | |

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| 5 | amplifying said first analog signal image on said first path and said second | |
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| 6 | analog signal image on said second path; and | |
| 7 | transmitting said first amplified analog signal image on a first antenna and | |
| 8 | 8 said second amplified analog signal image on a second antenna. | |
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| 1 | 6. The method of claim 4 further comprising: | |

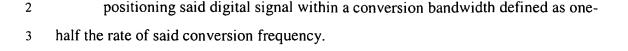
- filtering a plurality of analog signal images at different frequency bands to
 provide at least one analog signal image of a frequency band corresponding to each of
 a plurality of paths.
- 7. The method of claim 4 further comprising:
 selectively producing on each of a plurality of paths at least one analog signal
 image of a frequency band corresponding to each of said plurality of paths.
- 1 8. The method of claim 1 further comprising:
 2 adjusting a conversion rate for converting said digital signal to produce said
 3 analog signal image at said RF frequency.
- 9. The method of claim 1 further comprising:
 adjusting a frequency for said digital signal to be converted into analog form
 to produce said analog signal image at said RF frequency.
- 1 10. A method of processing digital signals to be transmitted in analog
 2 form, said method comprising the steps of:
 3 converting a digital signal to produce a projected analog signal image; and
 4 using said projected analog signal image at said frequency to produce analog
 5 signals for transmission.
 - 11. The method of claim 10 comprising:

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- 1 12. The method of claim 10 comprising: 2 receiving a plurality of digital signals; 3 positioning said digital signals in non-overlapping portions of a conversion 4 bandwidth defined as one-half the rate of said conversion frequency; 5 converting said digital signals to produce said projected analog signal images at frequencies greater than said conversion bandwidth; and 6 7 using said projected analog signal images for transmission.
- 13. The method of claim 12 wherein said step of using includes: 2 providing a projected analog signal image onto a path; 3 amplifying said projected analog signal image on said path; and 4 transmitting said amplified analog signal image using at least one antenna.
- The method of claim 13 wherein said steps of providing, amplifying 2 and transmitting further include: 3 providing a first projected analog signal image of a first frequency band on a 4 first path and a second projected analog signal image of a second frequency band on a 5 second path; 6 amplifying said first projected analog signal image on said first path and said 7 second projected analog signal image on said second path; and 8 transmitting said first amplified analog signal image on a first antenna and
- 1 15. The method of claim 13 wherein said step of providing further 2 includes:

said second amplified analog signal image on a second antenna.

| 3 | filtering a plurality of said projected analog signal images at different | | | | |
|---|--|--|--|--|--|
| 4 | frequency bands to provide at least one projected analog signal image of a frequency | | | | |
| 5 | band corresponding to each of a plurality of paths. | | | | |
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| l | 16. The method of claim 13 wherein said steps of providing further | | | | |
| 2 | includes: | | | | |
| 3 | selectively producing on each of a plurality of paths at least one projected | | | | |
| 4 | analog signal image of a frequency band corresponding to each of said plurality of | | | | |
| 5 | paths. | | | | |
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| 1 | 17. The method of claim 10 further comprising: | | | | |
| 2 | adjusting a conversion rate for converting said digital signal to produce said | | | | |
| 3 | projected analog signal image at said frequency. | | | | |
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| 1 | 18. The method of claim 10 further comprising: | | | | |
| 2 | adjusting a digital frequency for said digital signal to be converted into analog | | | | |
| 3 | form to produce said projected analog signal image at said frequency. | | | | |
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| 1 | 19 A transmitter comprising: | | | | |
| 2 | a digital to analog converter configured to receive a digital signal and convert | | | | |
| 3 | said digital signal into analog form, thereby producing an analog signal image at a | | | | |
| 4 | radio frequency; and | | | | |
| 5 | transmitter circuitry configured to use said analog signal image at said radio | | | | |
| 6 | frequency for transmission. | | | | |
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| l | 20. The transmitter of claim 19 comprising: | | | | |
| 2 | signal processing circuitry configured to position said digital signal within a | | | | |
| 3 | conversion bandwidth defined as one-half the rate of converting said digital signal | | | | |
| 4 | into analog form. | | | | |

| 1 | 21. The transmitter of claim 19 comprising: | | | |
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| 2 | signal processing circuitry configured to receive a plurality of digital signals | | | |
| 3 | and to position said digital signals in non-overlapping portions of a conversion | | | |
| 4 | bandwidth defined as one-half the rate of said converting; | | | |
| 5 | said digital to analog converter configured to convert said digital signals to | | | |
| 6 | produce analog signal images at different transmission frequencies; and | | | |
| 7 | said transmitter circuitry configured to use said analog signal images for | | | |
| 8 | transmission. | | | |
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| 1 | 22. The transmitter of claim 19 wherein said transmitter circuitry | | | |
| 2 | comprising: | | | |
| 3 | a path for carrying said analog signal image; | | | |
| 4 | an amplifier on said path for amplifying said analog signal image on said path | | | |
| 5 | and | | | |
| 6 | at least one antenna for transmitting said amplified analog signal image. | | | |
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| 1 | 23. The method of claim 21 wherein said transmitter circuitry comprises: | | | |
| 2 | signal distribution circuitry configured to receive said analog signal images | | | |
| 3 | from said digital to analog converter and to provide a first analog signal image of a | | | |
| 4 | first frequency band on a first path and a second analog signal image of a second | | | |
| 5 | frequency band on a second path; | | | |
| 6 | a first amplifier on said first path for amplifying said first analog signal image | | | |
| 7 | on said first path; | | | |
| 8 | a second amplifier on said second path for amplifying said second analog | | | |
| 9 | signal image on said second path; | | | |
| 10 | a first antenna connected to said first path for transmitting said first amplified | | | |
| 11 | analog signal image; and | | | |
| 12 | a second antenna connected to said second path for transmitting said second | | | |
| 13 | amplified analog signal image. | | | |

for transmission.

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| 1 | 24. | The transmitter of claim 19, said transmitter configured to adjust a | | | |
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| 2 | conversion rate for said digital to analog converter to produce said analog signal | | | | |
| 3 | image at said radio frequency. | | | | |
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| 1 | 25. | The transmitter of claim 19, said transmitter configured to adjust a | | | |
| 2 | digital frequency for said digital signal to be converted into analog form to produce | | | | |
| 3 | said analog signal image at said radio frequency. | | | | |
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| 1 | 26. | A transmitter comprising: | | | |
| 2 | a digital to analog converter configured to receive a digital signal and convert | | | | |
| 3 | said digital signal into analog form, thereby producing a projected analog signal | | | | |
| 4 | image; and | • | | | |
| 5 | transn | nitter circuitry configured to use said projected analog signal image to | | | |
| 6 | produce analogous | og signals for transmission. | | | |
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| 1 | 27. | The transmitter of claim 26 comprising: | | | |
| 2 | signal | processing circuitry configured to position said digital signal within a | | | |
| 3 | conversion bandwidth defined as one-half the rate of said conversion frequency. | | | | |
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| l | 28. | The transmitter of claim 26 comprising: | | | |
| 2 | signal processing circuitry configured to receive a plurality of digital signals | | | | |
| 3 | and to position said digital signals in non-overlapping portions of said conversion | | | | |
| 4 | bandwidth; | | | | |
| 5 | said digital to analog converter configured to convert said digital signals to | | | | |
| 6 | produce projected analog signal images at frequencies greater than said conversion | | | | |
| 7 | bandwidth; and | | | | |
| 8 | said t | ransmitter circuitry configured to use said projected analog signal images | | | |

signal image at said frequency.

| 1 | 29. The transmitter of claim 26 wherein said transmitter circuitry includes: | | |
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| 2 | a path for carrying said projected analog signal image; | | |
| 3 | an amplifier on said path for amplifying said projected analog signal image on | | |
| 4 | said path; and | | |
| 5 | at least one antenna for transmitting said amplified analog signal image. | | |
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| 1 | 30. The transmitter of claim 27 wherein said transmitter circuitry | | |
| 2 | comprises: | | |
| 3 | signal distribution circuitry configured to receive said projected analog signal | | |
| 4 | images from said digital to analog converter and to provide a first projected analog | | |
| 5 | signal image of a first frequency band on a first path and a second projected analog | | |
| 6 | signal image of a second frequency band on a second path; | | |
| 7 | a first amplifier on said first path for amplifying said first projected analog | | |
| 8 | signal image on said first path; | | |
| 9 | a second amplifier on said second path for amplifying said second projected | | |
| 10 | analog signal image on said second path; | | |
| 11 | a first antenna connected to said first path for transmitting said first amplified | | |
| 12 | analog signal image; and | | |
| 13 | a second antenna connected to said second path for transmitting said second | | |
| 14 | amplified analog signal image. | | |
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| 1 | 31. The transmitter of claim 26, said transmitter configured to adjust a | | |
| 2 | conversion rate for said digital to analog converter to produce said projected analog | | |

32. The transmitter of claim 26, said transmitter configured to adjust a digital frequency for said digital signal to be converted into analog form to produce said projected analog signal image at said frequency.